

























Features

- · Ultra slim design with 35mm(2SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- · Isolation class II
- Pass LPS (Limited power source)
- · DC output voltage adjustable
- Protections: Short_circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- Over voltage category III
- LED indicator for power on
- 3 years warranty

Applications

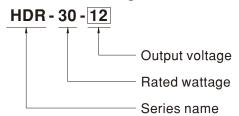
- · Household control system
- Building automation
- · Industrial control system
- Factory automation
- · Electro-mechanical apparatus

Description

HDR-30 is one economical ultra slim 30W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 35mm(2SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC(277VAC operational) and conforms to EN61000-3-2, the norm the European Union regulates for harmonic current.

HDR-30 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. It is equipped with constant current mode for overload protection, fitting various inductive or capacitive applications. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC60950-1, UL508, UL60950-1, EN61558-2-16) make HDR-30 a very competitive power supply solution for household and industrial applications.

Model Encoding



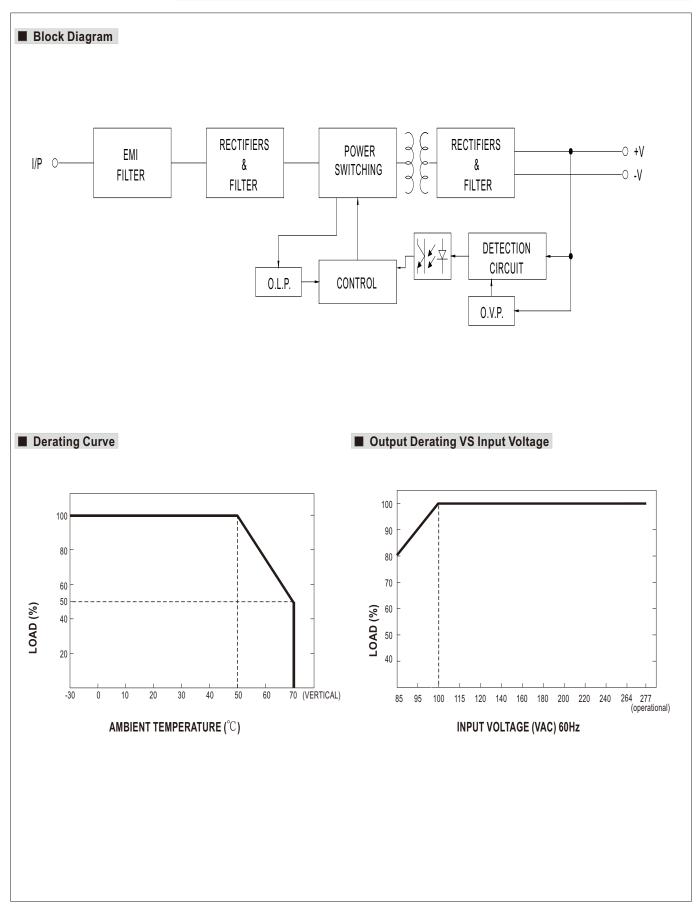


SPECIFICATION

MODEL		HDR-30-5	HDR-30-12	HDR-30-15	HDR-30-24	HDR-30-48	
	DC VOLTAGE	5V	12V	15V	24V	48V	
	RATED CURRENT	3A	2A	2A	1.5A	0.75A	
OUTPUT	CURRENT RANGE	0 ~ 3A	0 ~ 2A	0 ~ 2A	0 ~ 1.5A	0 ~ 0.75A	
	RATED POWER	15W	24W	30W	36W	36W	
	RIPPLE & NOISE (max.) Note.2		120mVp-p	120mVp-p	150mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.8V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55.2V	
	VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	±1.0%		
						±1.0%	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±1.0% ±1.0% ±1.0% ±1.0%					
	SETUP, RISE TIME	500ms, 50ms/230VAC 500ms, 50ms/115VAC at full load					
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/115VAC at full load					
	VOLTAGE RANGE	85 ~ 264VAC (277VAC operational) 120 ~ 370VDC (390VDC operational)					
	FREQUENCY RANGE	47 ~ 63Hz					
NPUT	EFFICIENCY (Typ.)	82%	88%	89%	89%	90%	
	AC CURRENT (Typ.)	0.88A/115VAC 0.48A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 25A/115VAC 45A/230VAC					
	OVERLOAD Note.4 OVER VOLTAGE	105 ~ 160% rated output power					
DOTESTION		Protection type : Consta	ant current limiting, rec	overs automatically after f	fault condition is removed		
PROTECTION		5.75 ~ 7.5V	15 ~ 18V	18.8 ~ 22.5V	30 ~ 36V	57.6~ 67.2V	
		Protection type: Shut down o/p voltage, re-power on to recover					
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-cond					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%°C (0 ~ 50°C) RH non-condensing					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
	OPERATING ALTITUDE						
	OVER VOLTAGE CATEGORY	2000 meters					
	SAFETY STANDARDS	III; According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters					
	WITHSTAND VOLTAGE	UL60950-1, UL508, TUV EN61558-2-16, IEC60950-1, EAC TP TC 004, BSMI CNS14336-1 approved; Design refer to TUV EN60950-1					
		I/P-O/P:4KVAC					
SAFETY & EMC (Note 5)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 5				,	
	EMC EMISSION	Parameter	Standard			Test Level / Note	
		Conducted	,	5032(CISPR32), CNS13438			
		Radiated	,	EN55032(CISPR32), CNS13438		Class B	
		Harmonic Current	EN61000-3-2 Class A				
		Voltage Flicker EN61000-3-3					
	EMC IMMUNITY	EN55024, EN55035, EN61000-6-2, EN61204-3 Parameter Standard Test Level /Note					
		ESD		Standard FNC4000 4 2			
		Radiated Susceptibility		EN61000-4-2 EN61000-4-3		Level 3, 8KV air; Level 2, 4KV contact, criteria	
		EFT/Burest		EN61000-4-3 Level 3, criteria A EN61000-4-4 Level 3, criteria A			
		Surge		EN61000-4-5 Level 4,2KV/L-N, criteria A			
		Conducted				Level 3, criteria A	
		Conducted EN61000-4-6 Level 3, criteria A Aggnetic Field EN61000-4-8 Level 4, criteria A					
			>95% din 0. 5 periods 30% din 25 period				
		Voltage Dips and interru	iptions EN61000	-4-11		ptions 250 periods	
OTHERS	MTBF	968.1K hrs min. MIL-HDBK-217F (25° C)					
	DIMENSION	35*90*54.5mm (W*H*D)					
	PACKING	0.12Kg;96pcs/12.5Kg/1.04CUFT					

- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 \(\mu f \) & 47 \(\mu f \) parallel capacitor.
- 3. Tolerance : includes set up tolerance, line regulation and load regulation.
 4. Constant current limiting operation within 50% ~100% rated output voltage; protection type for short ciruit is hiccup mode,it will recover automatically after fault condition is removed.
- 5. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- 6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

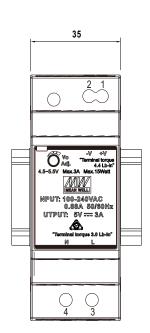


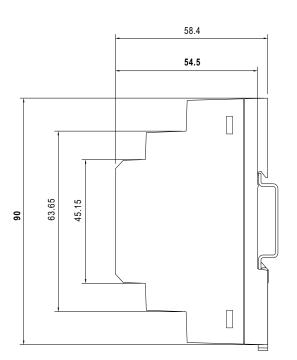


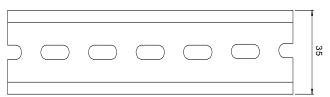


■ Mechanical Specification

(Unit: mm, tolerance ± 0.5mm)







ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	+V	3	AC/L
2	-V	4	AC/N

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html